

## **DESCRIPTION:**

M19 RNase A is used to remove RNA from DNA plasmid preparations and protein samples. It is also used in RNA sequence analysis and protection assays. M19 RNase A is recombinantly expressed in and purified from *E. coli*. It is bovine-free.

## **BACKGROUND:**

M19 Ribonuclease A is an endoribonuclease that attacks at the 3'OHphosphate of a pyrimidine nucleotide. The sequence of pG-pG-pC-pA-pG will be cleaved to give pG-pG-pCp and A-pG. The highest activity is exhibited with single stranded RNA.

## **FORMULATION:**

20 mM Tris pH 8.0. 0.2 µm filtered solution.

## **ACTIVITY/USAGE:**

1,000 U/mL. Use on clarified lysate at a final concentration of 100 U/mL for 30 min at room temperature. (Activity was measured using the RNaseAlert kit.)

## **APPLICATIONS:**

- Removal of RNA during Plasmid DNA purification.
- Removal of unspecifically bound RNA.
- RNase protection assays.
- Analysis of RNA sequences.
- Hydrolysis of RNA contained in protein samples.

## **STORAGE:** -80 °C

**QC:** >95% purity by SDS densitometry.